## Arsenic removal research sponsored by Awwa Research Foundation

## Hsiao-wen Chen<sup>1</sup>

Abstract: This presentation will introduce the five reports on arsenic removal technologies published by Awwa Research Foundation (AwwaRF) this year. Two of the projects studied arsenic removal media with different approaches. While one focused on the impact of raw water quality via bench-scale batch and column testing, the other utilized rapid small scale columns to test removing arsenic in water provided by utilities. It is more difficult to remove the reduced state of arsenic, known as arsenite or As(III). The third project looked into the oxidation of As(III) by solid-phase media or a UV-sulfite process. Inevitably, all arsenic removal processes generate wastes. The fourth project examined arsenic residual treatment options. Lastly, the feasibility of implementing the point-of-use or point-of-entry alternative was evaluated in the fifth project. Additionally, this presentation will give an overview of ongoing studies on innovative arsenic removal technologies that AwwaRF has sponsored since 2004 as a member of the Arsenic Water Technology Partnership.

<sup>1</sup>Awwa Research Foundation, 6666 W Quincy Ave, Denver, CO 80235-3098; Tel: 303-347-6103; hchen@awwarf.org.

**Biographical sketch:** Hsiao-wen Chen is a Project Manager at Awwa Research Foundation. The projects she oversees include research on innovative arsenic removal technologies sponsored by the Arsenic Water Technology Program. She has a Ph.D. degree in environmental engineering from the University of Colorado at Boulder and has 11 years of experience in arsenic chemistry, occurrence, and treatment.